

FIG. 1

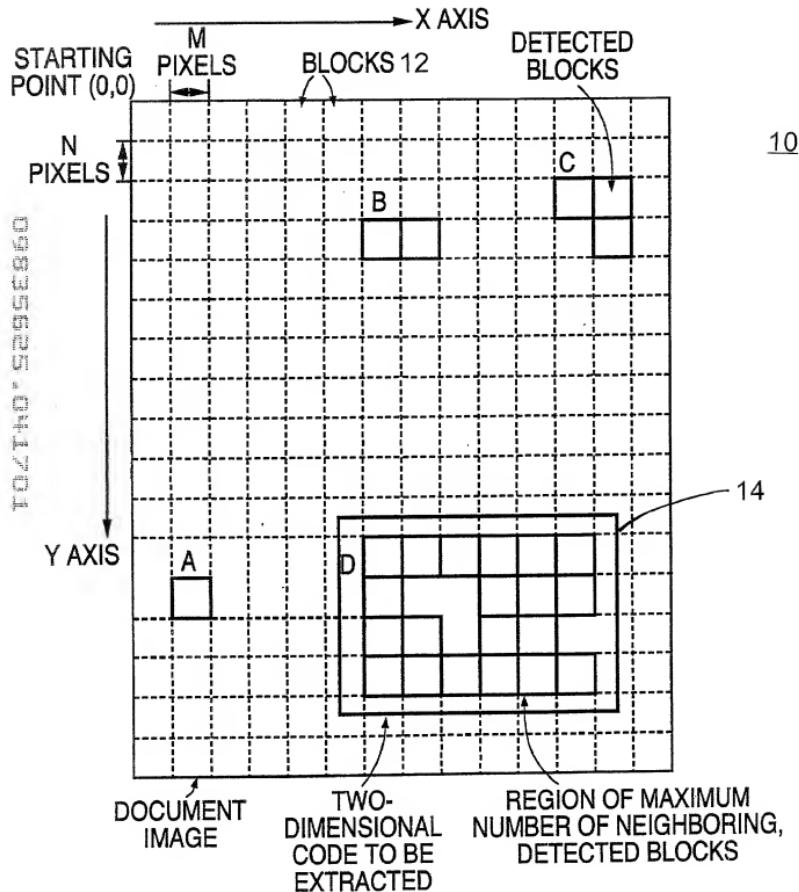


FIG. 2

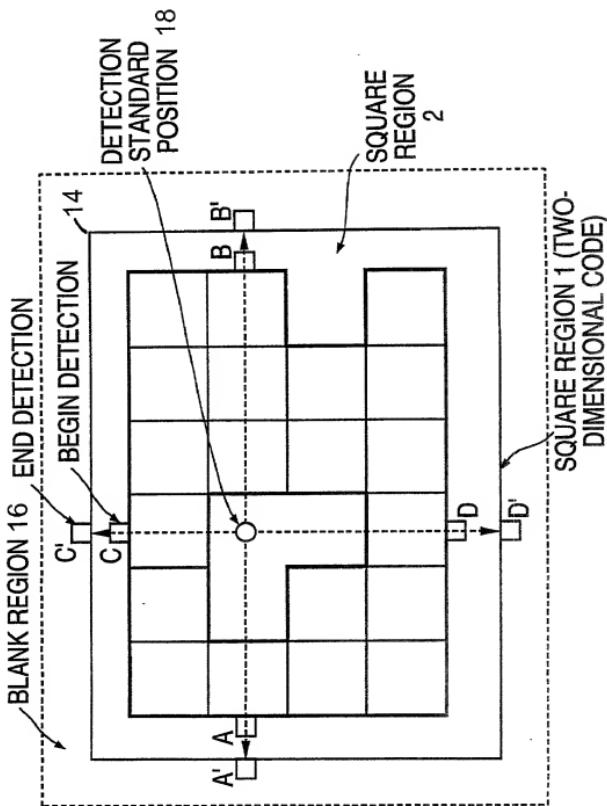


FIG. 3

100

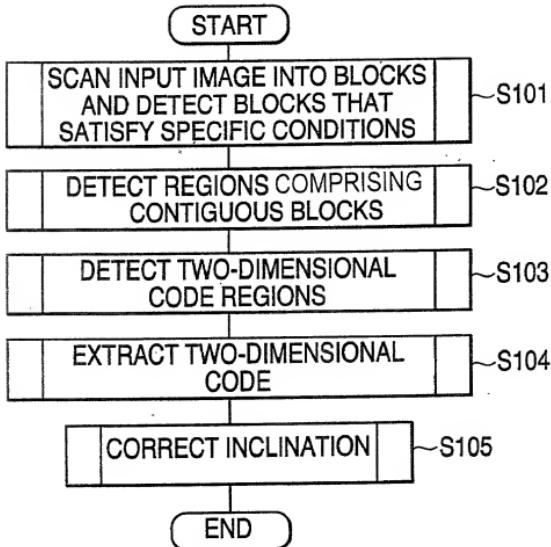


FIG. 4

| BLOCK NUMBER | X COORDINATES | Y COORDINATES | CONNECTED BLOCK COUNT | REGION NUMBER |
|--------------|---------------|---------------|-----------------------|---------------|
| 1 | X1 | Y1 | C1 | R1 |
| 2 | X2 | Y2 | C2 | R2 |
| ... | ... | ... | ... | ... |
| i | Xi | Yi | Ci | Ri |
| ... | ... | ... | ... | ... |
| n | Xn | Yn | Cn | Rn |
| EOB | - | - | - | - |

EOB: END OF BLOCK TABLE,
IDENTIFIERS SHOWING THE END OF THE TABLE

FIG. 5

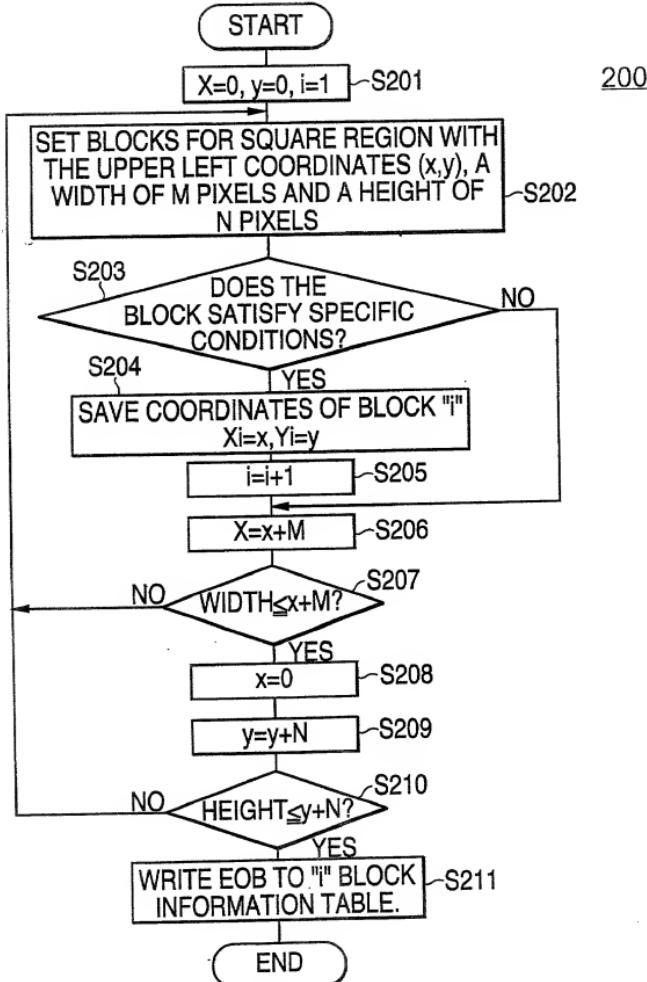


FIG. 6

300

"i" BLOCK NUMBER
"k" REGION NUMBER

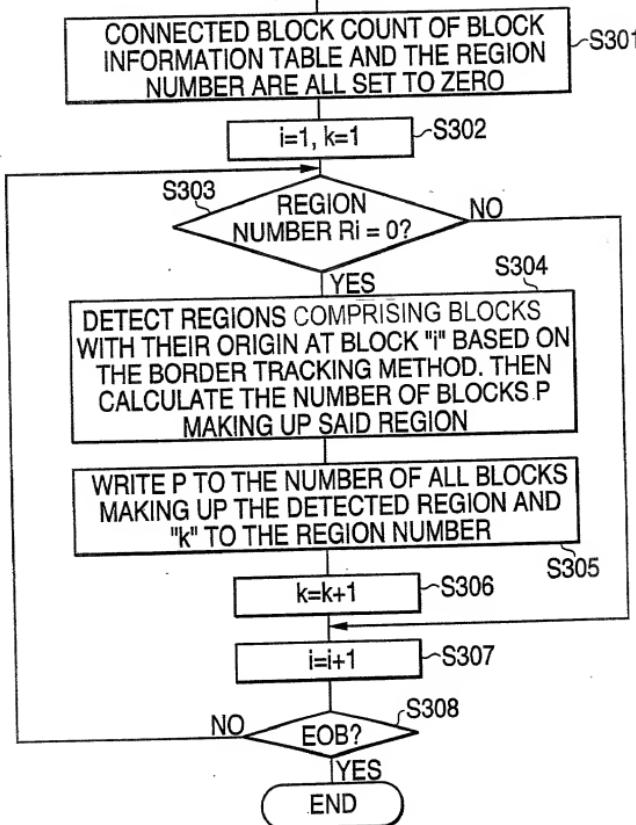


FIG. 7

REGIONS
Apr. 2 '01
K.S. T.N.

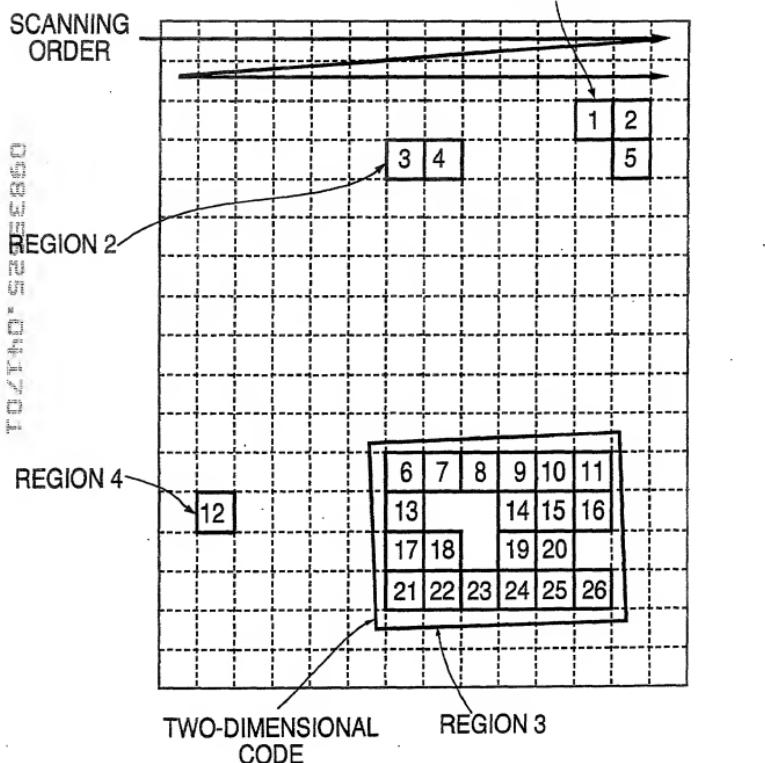


FIG. 8

| BLOCK NUMBER | X COORDINATES | Y COORDINATES | CONNECTED BLOCK COUNT | REGION NUMBER |
|--------------|---------------|---------------|-----------------------|---------------|
| 1 | 352 | 64 | 3 | 1 |
| 2 | 384 | 64 | 3 | 1 |
| 3 | 192 | 96 | 2 | 2 |
| 4 | 224 | 96 | 2 | 2 |
| 5 | 384 | 96 | 3 | 1 |
| 6 | 192 | 352 | 20 | 3 |
| 7 | 224 | 352 | 20 | 3 |
| 8 | 256 | 352 | 20 | 3 |
| 9 | 288 | 352 | 20 | 3 |
| 10 | 320 | 352 | 20 | 3 |
| 11 | 352 | 352 | 20 | 3 |
| 12 | 32 | 384 | 1 | 4 |
| 13 | 192 | 384 | 20 | 3 |
| ... | ... | ... | ... | ... |
| 26 | 352 | 448 | 20 | 3 |
| EOB | - | - | - | - |

400

FIG. 9

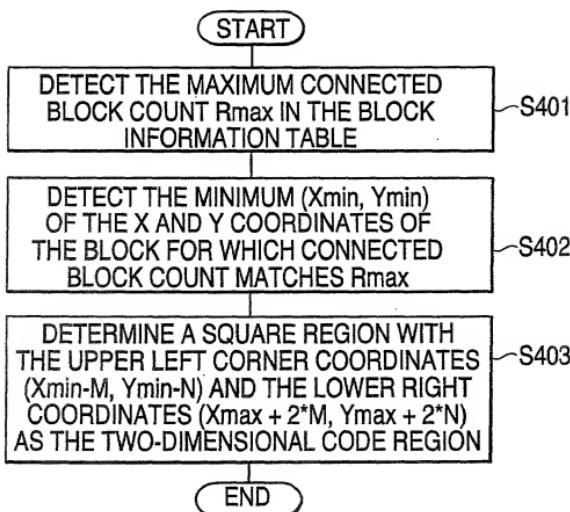
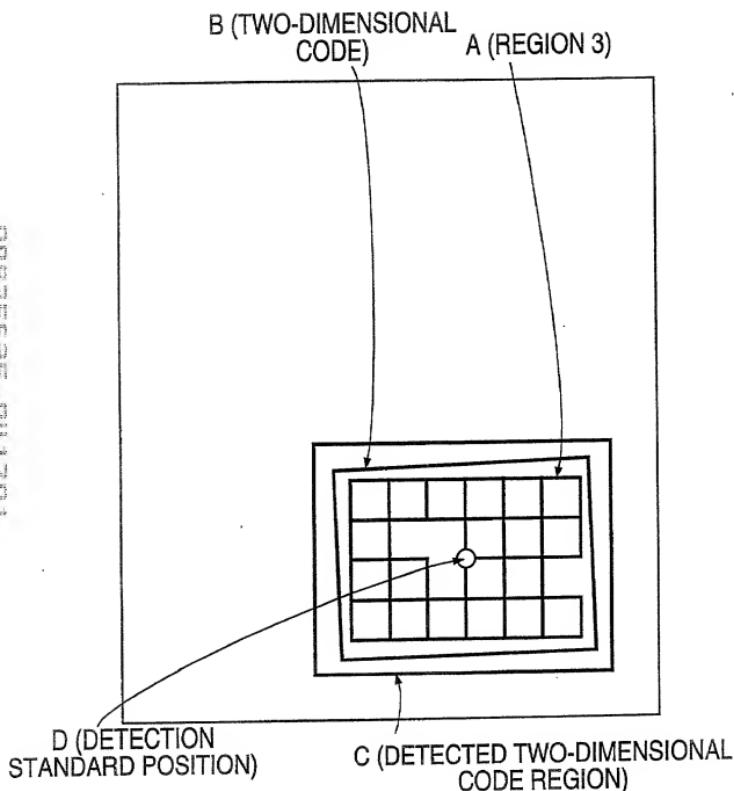


FIG. 10



0098335625-0041701

FIG. 11

500

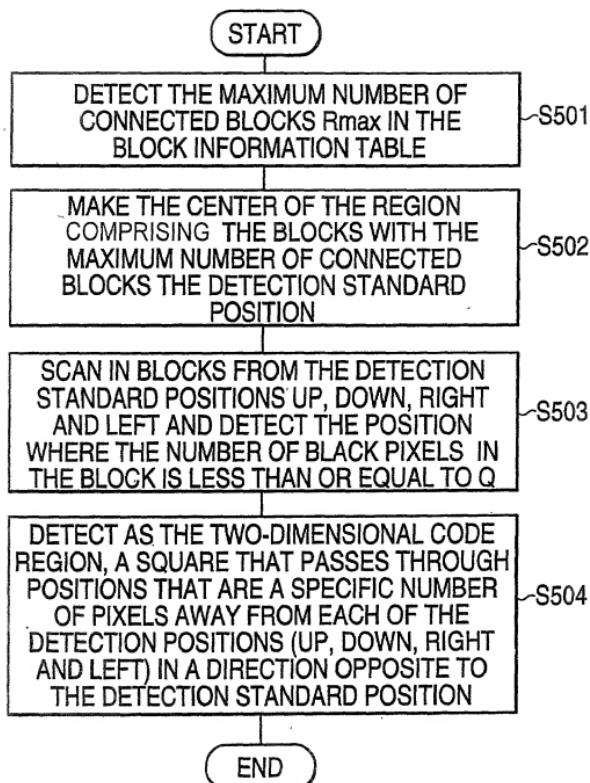


FIG. 12 (A) REGION 3

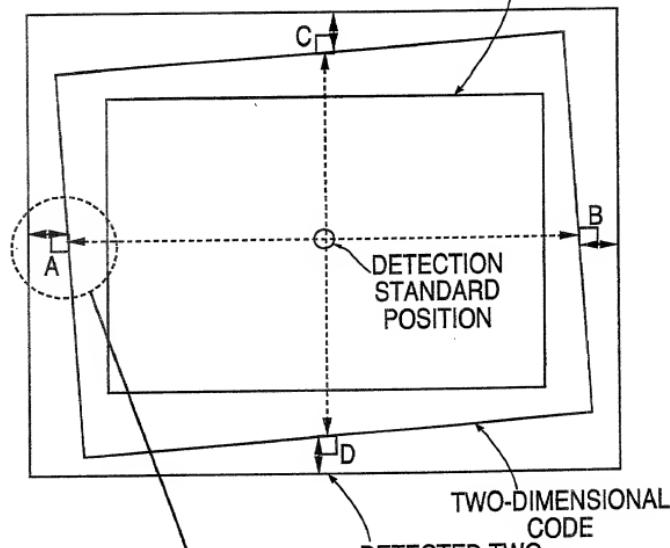


FIG. 12(B)

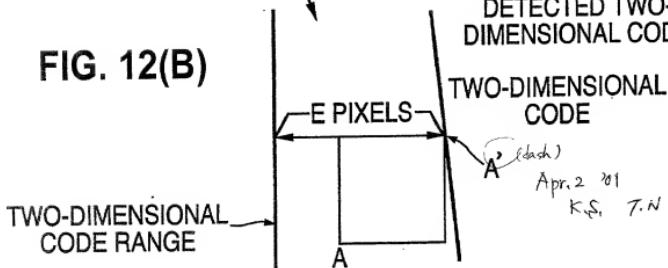


FIG. 13

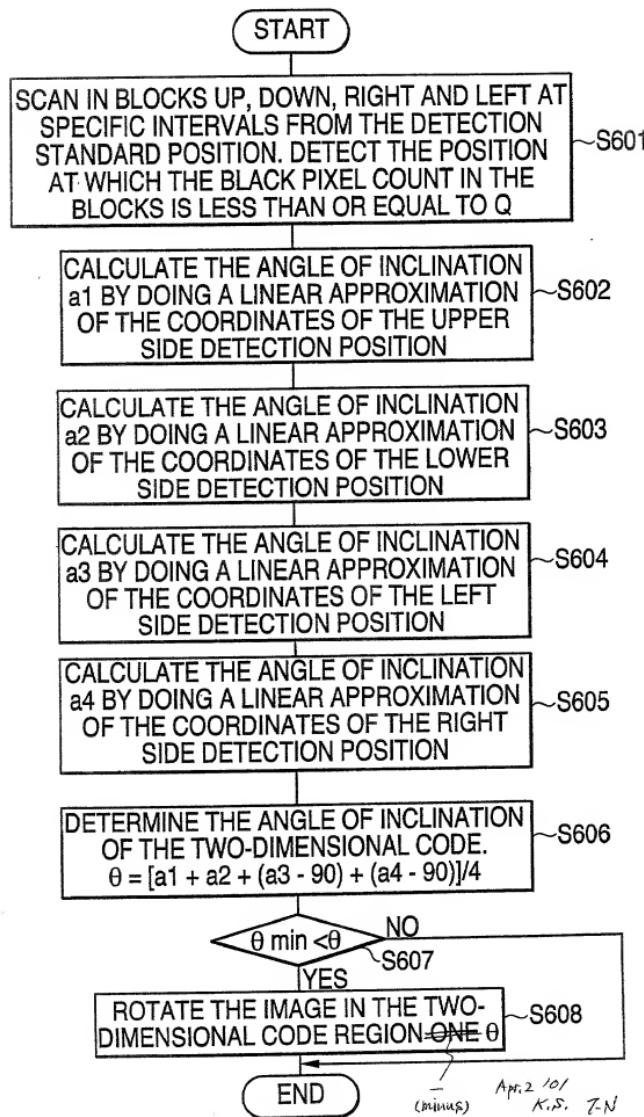


FIG. 14

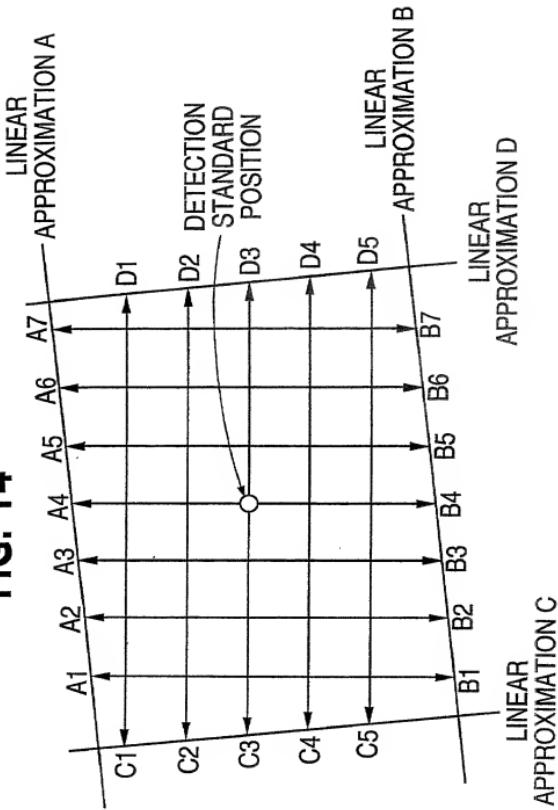
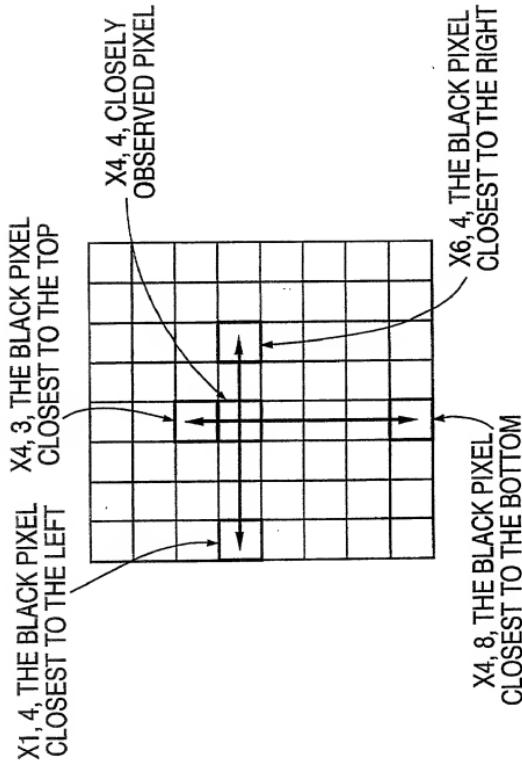


FIG. 15



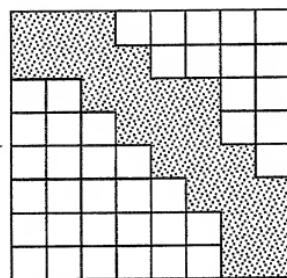


FIG. 16(A) BLACK PIXEL DISTRIBUTION WITHIN TEXT BLOCK

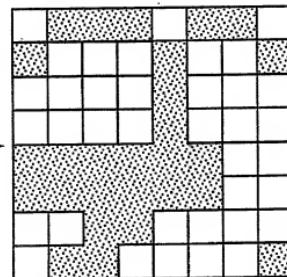


FIG. 16(B) BLACK PIXEL DISTRIBUTION WITHIN TWO-DIMENSIONAL CODE BLOCK

FIG. 17(A)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | 3 | 2 | | | | | |
| 2 | 2 | 4 | 2 | | | | |
| | | 2 | 4 | 3 | 2 | | |
| | | | 2 | 4 | 3 | | |
| | | | | 2 | 4 | 2 | |
| | | | | | 2 | 4 | 2 |
| | | | | | | 3 | 3 |
| | | | | | | 2 | 2 |

$$DAVG = 63/24 = 2.6$$

AVERAGE BLACK PIXEL INTERVAL IN A TEXT BLOCK

| | | | | | | | |
|---|---|---|---|---|---|---|----|
| | 5 | 6 | 6 | | 6 | 1 | |
| 8 | | | | 8 | | 9 | |
| | | | | 2 | | | |
| | | | | 2 | | | |
| 5 | 6 | 6 | 6 | 4 | 6 | | |
| 1 | 5 | 4 | 4 | 3 | 2 | | |
| | 3 | 2 | | | | | |
| | 3 | 7 | | | | | 11 |

$$DAVG = 131/27 = 4.9$$

AVERAGE BLACK PIXEL INTERVAL IN A
TWO-DIMENSIONAL CODE BLOCK

FIG. 17(B)

FIG. 18

